

NOVEMBER 1998

This Old House

MIRACLE BUILDING BLOCKS • A WINDOW MAKER AT WORK • PERFECT DRYWALL
DREAM HOUSE FOUNDATION • PICKING SWITCHES • FIXING A BALUSTER • RASPS



Hot Stuff: **Radiant Floor Heating**
Design Plans for the Watertown TV Project
Tackling a Mail-Order **Greenhouse**

USA \$3.95 CANADA \$4.95





Where do you want to go today?

Wouldn't it be cool if your computer could _____?

Well, if somebody can imagine it, chances are your computer will someday do it. Amazing things. Useful things. Silly things.

And of course, this says more about people than it does about computers. People are born to innovate, invent and create. People love to get stuff done.

And we make tools that help.

Microsoft

www.microsoft.com

INTRODUCING
A TRUCK
99% OF THE
WORLD
DOESN'T NEED.
YET.



Excludes other GM divisions. *With air bags. Always wear your seat belt. GMC and GMC logo are registered trademarks of General Motors Corporation.

GMC
The way things should be.

Design a truck with the demands of 99% of the world in mind and you can only build a better truck for powerful Vortec V8 engines now and the new 6-wheel drive. And the benefits are a lot more parking. What 1% of

you may expect after standards. Fully redesigned, the all-new Sierra leads the new, the world's most. A pro. Call 1-800-GMC-9192, or visit our web site www.gmc95.com.

THE ALL-NEW
SIERRA

welcome home

They only needed grace for their families, but Robert and Suzanne Gruden picked up something else when shopping at a local home improvement store last spring in Bellevue, Washington. They bought a copy of the special "Mission Project" edition of *This Old House* magazine. Lending through the year, they soon realized they'd found their dream house—a 275-year-old Colonial (referred to by the crew of public television's *This Old House*). A sale of competitive bids soon followed. In early June, Robert and Suzanne flew across the country to view the property. For Suzanne's 42nd birthday, in mid-June, Robert wrote a poem about the house. In early July, the couple's initial bid arrived at WGBH-TV (which produces *T.O.H.*).

The house became a catalyst for a change in the Grudens' life. Robert, a software engineer for 17 years with Microsoft, and Suzanne, a nurse, wanted to take some time off to raise



In August, Robert and Suzanne Gruden and their three children—from left, Charlie, Suzanne and Anne Marie—moved from Washington to the 1726a Colonial in Melrose, Massachusetts, featured by *T.O.H.* last fall.

children who lived over the roof-pitched workshop wing of the house to build some look-alikes for the study," says Suzanne, who admires the period book cases *T.O.H.* editors co-presenter Norm Abram and architect Tom Silva made for the studio rooms. "And Bob wants to build a dollhouse version of this house for Victoria." Robert is motivated by the 15th issue. "I just like to go in and look up," he says. Suzanne loves the decade—like the hand-painted linings on the benches and—the comfort of a steady house. "If the place has lasted for 274 years, it's sure not to chide us," she jokes. "We suspect that it will survive dear old Mom and their children's children and..." —Jill Coonies

STORY ABOUT THE MATHS HOME APPEARED IN HOUSE BEYOND FROM JANUARY 1997 IN MASSACHUSETTS, 1999 (AS WELL AS IN THE SHOWS 1999 "NORTH POLE" SERIES, SERIES)

This Old House

PRODUCTION
Ken G. Thudis

CREATIVE CONSULTANTS

JOHN BOWEN (1997-1998) Tim O'Neil
ROBERTO G. BOWEN (1999-2000)

ART DIRECTOR

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil
ROBERTO G. BOWEN (1999-2000)

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

PRODUCED BY

JOHN BOWEN (1997-1998) Tim O'Neil

EXECUTIVE PRODUCERS

JOHN BOWEN (1997-1998) Tim O'Neil

This Old House has a solid foundation...

In September, 1979, *This Old House* debuted on PBS and began a how-to home revolution. Now, in our 25th season, thanks to lots of hard work, unflinching professionalism and a dedication to superior craftsmanship, *This Old House* has become the most popular series on public television.

We at *This Old House* couldn't have done it without the ongoing support provided by our national sponsors. **Many thanks.**



This Old House is proud to be a PBS member station.

This Old House
Be sure to join us every week
on your local PBS station.
Check local listings
www.pbs.org





It doesn't matter which one you choose. Without ComfortTherm sound control insulation, you may as well put one in every room.



We won't argue that shopping for appliances is the exciting part of a remodeling project. But it's important to think about the change you can't see that also make your home enjoyable. ComfortTherm™ sound control insulation can significantly reduce unwanted noise in your home. Do you really want to hear your dishwasher in the living room? Or your son's stereo in the study? When you install

ComfortTherm in your interior walls and between floors, your home will be a quieter place. Our encapsulated insulation even makes installation comfortable, reducing dust that can make you itch. Call 1-800-654-3103 for a free brochure to see how ComfortTherm can make your home more peaceful, and may even increase the value of your home. And you thought insulation wasn't exciting.



JM Johns Manville



Continuing Issues

Mark Doornik and Louise Ann Bishop, a renovated church in San Francisco ("American Grace," July/August 1988) turned out great! What an overwhelming project for This Old House. I didn't miss an episode. Keep up the good work, and TB continues to live on!

Auto. Tel., Sacramento, Calif.

Brace being took the words right out of my mouth. The San Francisco convention was the "buckiest hippest project." Unlike the skeptical ones I saw as a masterpiece in the making from the first show. Congratulations to everyone involved, and best wishes to Mike and Louie Ave.

Alexia Thompson, Secretary

Learning Outcomes

The flagman says that the porch at the house in the photo on pages 74 and 75 ("Play Round the Flag, Boys," June 1986) should have been displayed according to the Flag Code, not the wiles of an older diller. I quote from the Flag Code, Title 48, United States Code, chapter 150, section 1201, paragraph (c): "When displayed either horizontally or vertically against a wall, the flag should be supported and to the flag's own right, that is, to the observer's left. When displayed in a window, the flag should be displayed in the same way, with the upper or blue field to the left of the observer in the street." You further discover the flag by allowing it to be seen only from one or more of the north faces. When not displayed, the flag is correctly kept folded in a permitted blemish-free form.

ALYSSA FISHER, SENIOR FAST CLASS,
New Jersey Army National Guard

Logic of Pursuit

My and Mrs. Burrell's problems ("Loretta Ruth," July/August 1988) began when they heard their problems. First, the author stated

James read their brief proposal for my residence. Went to Construction. Showed his suggestions that he could update the house—revitalize not only that he was observant to site conditions like the views, but absorbed the design itself dispersed prevailing winds, the tracking of the sun and every other condition of ecology. Then, the decision to sacrifice a 60-foot setback for the sake of the garage is baffling, especially considering that the clients were coming to the country to see nature, not to find a great place to park their cars.

Blaise Desportes, *Auxerre, France*

Helping Skills

As an electronics rigger for a theatrical stage, I like to shade you for your treatment of rope. "The Fitter's Bible," July/August 1995, You gave the breaking strength of the rope rather than the safe working load. Most ropes breaking strength is three-to-four times higher than the working load. Working-load guidelines take into account that most loads are dynamic in comparison to static. A rope should never be used near its breaking strength.

Bus. Dev. Serv. Grants, Fla.

Trade: No export

As a general contractor in Chicago, I have a suggestion regarding Mr. Nelson's query about protecting jobs from dirt and damage during arrival to projects (FtE/enr.com "Protection," Letter, July/August 1998). Agencies that have played well in the line of the top of the job and edged with steel tape-and-rolls keep out dirt and debris—rolls on a flexible protection barrier. Or he is three pieces of second-hand plywood can be sewed together to make a tub cover. To protect a breathing air clean-tub, one would need to install a complete cover that is well worth it, the end result is a protected job, a happy general contractor and most important, a happy home owner.

John F. Turner, Chicago

When I work on new houses, I cover the tub with the carton if I can't fit in or cut a piece of plasticard or plywood to fit on top. I tape all around it so dirt can't get in. Then I don't have to worry about it.

Business Publications Mail/News: NY

All Menus are Double

The article "Building a Data Deck" (July/August 2008) correctly points me regarding the lack of prescriptive evidence details for the structuring of a deck to be housed in the National Offenders and Cooks Administration (NOCOA) Building. I was told that you failed to include, however, that I also failed to do the code includes performance review needs in the form of building criteria that need to be incorporated in the design of a deck to withstand the required loads. In other words, the code requires that the deck, including a collapse, be designed to withstand the required loads in the code. The lack of prescriptive evidence details, for example, based on some of 50-kilobit loads, is not a prescriptive evidence based should not be inferred to mean that the code is deficient but rather that a prescriptive evidence approach is not always adequate, depending on the location of the

DOI: 10.1002/for

It is a common misconception and believe that the Forest Products Laboratory's system for attaching a deck to a house (page 106) has some shortcomings from a framing standpoint. The top of the metal flashing is not properly lapped behind the building paper. This will cause the water—which is migrating between the building paper and the exterior finish (in this case, vinyl siding)—to run down the face of the paper and flashing, to seep where the bolts attach the beams to the house, the water flow will encounter any resistance because the connection is not tight.

Another problem is the call for caulking of bolt connections. Caulking can break down after a few years. The bolt connections are not easily accessible, making it hard to maintain caulking. A preferable option for (behind) the flashing would be a flange (polyethylene film and rubberized asphalt membrane (like the one used in Terec's system, page 107) or a modified bitumens method. Compatible materials should be used (instead of caulking).

For Further Reading, See

Address mail to: Letters, The On-Line magazine, 1485 Avenue of the Americas, New York, NY 10019. Please include your full name, address and daytime phone number. Published letters will be edited for clarity and style and may be used in a future issue.

Why more pros buy from our pros.



Abstract

RYOBI

DEWALT

BOSCH

The calculation

PORTER+CORIE

DELTA



Like every Monte Carlo driver is a wild side



While the Monte Carlo interior is comfortable and refined, its 200-hp

V6 packs plenty of attitude.

—*Wade Martin, Motor Trend*

—*Monte Carlo* The ride you show

the world is up to you.

MONTÉ CARLO Z34
Genuine Chevrolet

Illustration: David LaRocca. Design: Robert Fenn. The Chevrolet logo, Monte Carlo, and Z34 are registered trademarks of General Motors Corp. ©1995 GM Corp. All rights reserved. Monte Carlo is a registered trademark of General Motors Corp. All rights reserved.

OFF THE WALL

BY JEANNE MARIE LASKAS



THE GREAT BOOTY GRAB

Home shows are heaven for grown-ups who never got over trick-or-treating

The guy at the door to the Pittsburgh Home & Garden Show hands me a program and a yellow plastic bag. I'm not sure what the plastic bag is for. Neither is Alex, my husband. This is our first home show. Frankly, we think it's a little odd to pay \$7.50 to get into a giant convention center full of salespeople peddling their wares—especially when you can just go to the mall for free—but we're game. We could use some kitchen floor tile ideas, some deck inspiration, a fresh approach to recessed lighting.

We follow the crowd and go riding the top escalator. We examine the faces of the people riding the down escalator, the people just completing their home show experience. They look—droopy. Delicately bearded home fixers. I notice two things about these droopy people: 1. Their yellow plastic bags are bulging out, in some cases, breaking and have to be held like babies. 2. Most of them are carrying yardsticks. Not

ILLUSTRATION BY A. J. GARGAS

just any yardsticks. Nice pink yardsticks with blue and gold measurement markings.

"You got to go on all those yardsticks," I say to Alex.

"But we already have a yardstick," he says.

"But I think those yardsticks are fine," I say.

We step off the sidewalk, walk toward the ocean and see a flocking of happy people carrying signs. Actually, they have two signs apiece: one blue and one yellow, and together with twice. "I must have one of those dual sign condoms," I say.

"But we don't need two signs—we are," Alex says.

"Where did you get the sign?" I say.

"Easy to a man in a Superhero XXXT-shirt. 'Are they fit?'"

"Fine looks," he says, pointing at the direction of a hot-cub truck, a steam-cornmeal cooking booth and a puno-and-cornu display. I don't see any signs. But I see a lot of other stuff I don't even know I wanted. What's a puno, I think, if not a place to put stuff? And a house show is a celebration of this stuff. A house show, I think, is an instant gratification extravaganza.

"Magnets?" I say to Alex. "Don't look now, but that guy over there in the booth with the concrete pavers is giving out some pretty decent refrigerator magnets." I point my husband over to the concrete-paver booth and go in for the kill. The magnets are in a basket just beyond my grasp, just an inch beyond that large man in the sport shirt whose abundance is why two could.

"Well, hello there, little lady!" the man says, spotting around and pointing a pointer with his fat

"Um," I say, fiddling like a kid caught shoplifting, even though the magnets are, technically, free. "So, well, I think my husband here has some questions about your punos." Alex looks at me. I can tell by the blank look on his face that he hasn't a puno question in his head. He could beat me right here and now. He could say, "She just want one of your signed magnets." Instead, he says, "Not punos. Are they durable?" Soon the puno-seller is off about what happens to concrete when compressed in a mold under extreme pressure and compressed with high-frequency vibrations. I scribbles-only type a mini-ideal display with five business card size and beyond that an evening display, which seems to have five better signed punos.

"Well, thanks," I say to the concrete man. I open my bag. He reaches for a magnet and, clunk, drops one in. I recognize that clunk. I remember that feeling. Alex holds out his bag. He wants a magnet too. Giggling, we step away.

That's when I begin to understand the house show experience. It all goes back to me-as-a-teenager. The house show to go from place to place and have perfect strangers smile at you and fill your bag with goodies. I wonder how many miles of concrete pavers, how many thousands of puno blinds, how many millions of maps have been sold, thanks to the lessons learned from Helloween. "A guy just told me that the tubular skylight system book is going out free

digital read-out on the moon," Alex says.

"Let's go," I say, and we're off on a mission without boundaries.

We scoop up free puno, instant signers, opening signs, in only, the (optional) scented egg sign-plug, hand cream, tube, hand candy, sticky notebooks, magnets, a key chain in the shape of a tooth. We piddly take free baby screwdrivers, baby wrenches, baby bone-hulls, gum, pine, birdseed, calendars, a key chain in the shape of Florida. In my haste to pluck a free belows belows, I nearly knock over a kid. I grab the last handful of hand candy from the hot-cub truck, leaving my own hand to the take.

"Would you please carry my bag?" I then have the nerve to say to Alex. "It's getting really heavy."

"No way," he says. "Not unless you share your bone-hull candy."

I trade him three jawbreakers for a puno that says puno. We stand next to a life insurance booth, watching our candy. Alex points out that we're not getting any better from the side show, and we're not even close to the main show.

"Insects," I say, pointing. It's not a strange. There before us is a giant pile of those pink yardsticks. A hawk is giving them out. A guy trying to deliver a mortgage loan is giving away a mortgage of people posing with hats about yardsticks.

"Really, folks, I'm almost out," he says. But he overflows 1,000 yardsticks. "Could we have two?" I ask, and he hands them over.

"But I'm holding my cupcake in the air."

With that, our house show experience is complete. Well, Alex can't carry much else. Our backs ache. Our feet are blistered. The yardsticks, however, are one thing to use in walking tracks, so many people around us are trying to do. As we near the exit, we become surrounded by some bright, colorful cars in hanging from poles. A guy from Australia is selling shoes, \$150 a pair.

Although the chairs resemble medieval torture devices, they do have footrests and armrests, so people are sitting over and plugging down. I step onto a blue chair, and Alex takes over a red one. "Ah-hah!" is my reward. "Wow!" And "Wow!" About 15 of us, all strangers, are sitting in the chairs. A lot of house show looking is going on. A lady shows out some of the stuff in her yellow bag.

"Did you get the bottle opened?" she says.

"Check," I say.

"How about the air fern?" she says.

"Got two," I say.

Several of us eventually stop swiping and get in the flow, pour out the contents of our bags and compare our respective hauls. The kids back home after the big night. There's no mention of the thousands of dollars that we should be filled, thanks to the house show.

The man with the hanging chairs has no free stuff, only the chairs. So Alex and I buy two. ■

OLYMPUS
Focus On Life

WHEN WE SAY IT'S A POCKET CAMERA,
WE ACTUALLY MEAN THIS POCKET.

Introducing the world's smallest 35mm zoom camera.

That's the new Olympus Stylus Epic Zoom 35 up there, actual size. How'd we manage to pack so much powerful features into such a small place? Well, we've been building surgical endoscopes for years now—and compared to squeezing those tiny cameras into the miniature passageways inside the human body, squeezing this way into your coin pocket was a snap. And hey, it couldn't be the smallest pocket camera fit into your smallest pocket?

EXCLUSIVE AUTO-LOCK BULB-NEEDLE FLASH • 4X-ZOOM PHOTOGRAPH • 4-1/4" X 1-1/4" X 1-1/4" • 100-200 ISO SENSITIVITY • 100-200 ISO SENSITIVITY • 100-200 ISO SENSITIVITY

© 1999 Olympus Corporation. All rights reserved. Olympus Stylus Epic Zoom 35 is a registered trademark of Olympus Corporation.



Timber Revival

Last April, a tornado ripped through Nashville, Tennessee, demolishing 1,240 old-growth oaks at the Horseshoe, Andrew Jackson's plantation home. In the wake of the storm of Old Hickory itself, the plantation is salvaging the wood—which will soon help pay the bills for landscape restoration. Censured by the Rite Forest Alliance as “sustainable” wood, meaning it won’t clear-cut or harvest unsustainably,



the timber is destined for custom millwork to new and renovated houses and commercial spaces. And Gibson Musical Instruments is turning the Horseshoe’s felled 280-year-old tulip poplar, the tree’s oldest, into 200 limited-edition Old Hickory guitars. Cleanup will proceed meticulously,

without bulldozers, so workers can scratch the ground for acorns. Then the first planting primary will be a sowing of native Tennessee species to replace trees that had served as a buffer between the 15th-century estate and a 19th-century highway. “The replant is necessary for restorative purposes,” says Chris Adams, the estate’s director of research. “It’s difficult to demonstrate life as an early 1800s plantation with cars whizzing by.”



Painting the Town Green

In the early '90s, manufacturers began processing paint extracted from commercial contractors and household-waste centers and using it for low-cost fencing and graffiti cover-ups. Now, paint-recycling programs have grown up, and home owners are discovering the benefits of painting a house with someone else's leftovers. As paint-recycling has expanded across the country, companies have refined the process of sorting, filtering, testing and filtering reclaimed paint to improve the quality and range of colors. The latest paint now comes in whites, earth tones and custom hues as well as in flat and semigloss finishes for interiors and exteriors. And, to the delight of home owners, recycled paint not only is as good as new but also costs as little as \$8 a gallon, about half the cost of comparable-quality virgin paint. “It took quite a while to convince my husband,” says Judi Frantz, an education coordinator at the California Environmental Protection Agency. “But he said it was the closest paint he’d ever used.” And after six years, it’s held up beautifully. To find the nearest distributor, call your local waste-management department or state environmental protection agency.

“The easiest way to increase the value of your house by \$25,000 is to add a \$50,000 kitchen to it.”

—David Perry, *HomeAdvisor.com*



Sweet Tools

When a simple repair job turns into a Sisyphian nightmare and frustration builds until you're ready to bite the head off a hammer, go ahead and chomp away—these tools can take it. Coolas, gummy or chocolate, they can't turn a screw or saw wood worth a darn, but they can provide a sugar rush of inspiration. They don't taste half bad either. Sinking your teeth into a job has never been such a treat.

**Sometimes you forget the bread.
the store altogether.**



*The Chrysler Concorde was respectfully ranked
"Best Premium Midsize Car in Initial Quality"
by J.D. Power and Associates*



of the Chrysler Concord's precisely tuned suspension reduces rear end squat under acceleration and front end dive under braking.



ENGINEERED TO BE GREAT CARS

CHRYSLER CONCORDE



Hats Off

There's nothing like a little customer service to renew flagging faith. A member of our staff, who shall remain nameless, recently purchased and promptly broke a small saw from Japan Woodworker. We returned the saw anonymously—the company had no idea it had come from *This Old House*—and although the California-based firm's experts determined that the buyer had "abused" the blade, the company cheerfully and hastily sent a replacement. A folding saw with razor-sharp teeth, the tool is designed to cut on the pull rather than the push stroke, hence its instructions: "To avoid damage to the blade, let the saw do the work. Do not try to force it." Our staffer adamantly denies any wrongdoing, but we who know his enthusiasm have our doubts. The point is Japan Woodworker stood behind its product—and with refreshing graciousness. If you've had an especially positive experience with a manufacturer, write to *Extras*, *This Old House* magazine, 1185 Avenue of the Americas, 27th floor, New York, NY 10036, or E-mail us at kizesan@toh.timeinc.com.



• November 7 to 23—
Annual Chapman/Armen
Show, Ball's and Fox
County Business
Garden, Ball's, New
York, for hours, call
716-476-3355

• November 12 to 23—
Southern Christmas
Show, a holiday fair
featuring an old-time
rally, a children's
concert, cooking
classes and raffles
among others, Chatham
Shackleside Hotel,
Charlottesville,
North Carolina, 800-845-
8345, weekdays 10 a.m.
to 5:30 p.m., Sunday
10 a.m. to 4 p.m., \$2 for
adults, \$7 for the show

• November 22 to 24
and 30 to 23—
Ira Prussner Market
Festival with handcrafts
and crafts plus no-
show entertainment,
Concession Exhibitions
Center, San Francisco,
707-778-0386, Friday
10 a.m. to 5 p.m.,
Saturday 10 a.m. to
7 p.m., Sunday 10 a.m.
to 4 p.m., \$7 for adults,
\$3 for seniors and \$4
for ages 6 to 12

• November 14 to 15—
Lighten Up Show and
Sale, featuring a giant
weathering clock, live
demonstrations, cooking
classes, holiday craft
room and door prizes,
Western Woodmen
Furniture Pavilion,
Pawling, Watertown,
215-524-4311, Saturday
10 a.m. to 5 p.m.,
Sunday 10 a.m. to
4 p.m., 12 a day, \$7.50
for two days



Sidewinders

Perklike handles on two saw
retrofitting screwdrivers nestle
comfortably in the palm, which
makes boring and removing
screws easy on the rest of the
body. On one test, the black 18V
sidewinder again broke 45 de-
grees to the side, making it possible to
screw up to twice the leverage that can be
achieved on a normal screwdriver. A powerful
magnesium magnet secures bits to the driver. •
The other model features bit storage in the han-
dle and a locking collar to grip hex-shank bits,
and a gear assist eases the shock fear factor
for each turn of the red handle. That's fast
enough to transform the screwdriver into a cred-
ible drill, although it takes two hands to get this
inert 18 revolutions per minute. The 41 assorted screw
and drill bits, nut drivers and tiny screwdrivers look
as tempting in their case as a Whitman's Sampler.



ELIMINATE SQUEAKS.

ELIMINATE SQUEAKS

WHEN YOU BUILD WITH THE SILENT FLOOR SYSTEM.

Your mortgage will last only 30 years.
A squeaky floor is forever. Make sure your
dream home comes with the Silent Floor
system and you won't hear a squeak or a creak

from your floors, guaranteed.

Thirty-eight years and two million homes
ago we introduced engineered laminated
systems. They allow us to use less wood—
as little as a third used by traditional joist
quality floors. That's good news for the
environment and the look-alike of
your home.

Recently other companies have copied
the look of our TJI® joist system—inspired
here by our spokesperson, but the only
way to get the Silent Floor® guarantee
is to choose the Silent Floor system.

For more information, call

1-800-338-6615



Terra-Joist MacMillan

HOME OF THE FANGLIMBER® BUILDING SYSTEM



